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PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

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United States Patent and Trademark Office (Box PCT) Crystal Plaza 2 Washington, DC 20231 ÉTATS-UNIS D'AMÉRIQUE

Date of mailing (day/month/year) 09 March 1999 (09.03.99)	in its capacity as elected Office
International application No. PCT/US98/01617	Applicant's or agent's file reference RCA 88702
International filing date (day/month/year) 29 January 1998 (29.01.98)	Priority date (day/month/year) 15 July 1997 (15.07.97)
Applicant HALL, Estill, Thone, Jr. et al	

The designated Office is h	ereby notified of its electi	ion made:		
	•	eliminary Examining Autho	rity on:	
y y T <mark>yddi</mark> Medi	21 Janu	ary 1999 (21.01.99)		
in a notice effecting	later election filed with the	he International Bureau on	: 	÷
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2. The election X was				
was	not			
made before the expiration Rule 32.2(b).	n of 19 months from the p	priority date or, where Rule	32 applies, within the	time limit under
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I. Britel

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's o	or age	nt's file reference	FOR EURTHER ACTION	See Notific	cation of Transmittal of International
RCA 887	02		FOR FURTHER ACTION	Preliminar	y Examination Report (Form PCT/IPEA/416)
nternationa	l applic	cation No.	International filing date (day/month	n/year)	Priority date (day/month/year)
PCT/US9	8/016	617	29/01/1998		15/07/1997
nternationa H04N9/3		nt Classification (IPC) or n	ational classification and IPC		
pplicant					
HOMSC	ON C	ONSUMER ELECTR	ONICS, INC. et al.		
			nination report has been prepared according to Article 36.	d by this Int	ernational Preliminary Examining Authori
. This F	REPO	RT consists of a total of	of 4 sheets, including this cover s	heet.	
b	een a	mended and are the ba	ed by ANNEXES, i.e. sheets of the asis for this report and/or sheets of 607 of the Administrative Instructi	ontaining re	on, claims and/or drawings which have ectifications made before this Authority the PCT).
These	anne	exes consist of a total of	of sheets.		
					
3. This r	eport	contains indications re	lating to the following items:		
1	\boxtimes	Basis of the report			
11		Priority			-
111		Non-establishment of	opinion with regard to novelty, in	ventive step	o and industrial applicability
IV		Lack of unity of invent			-
٧	☒		under Article 35(2) with regard to tions suporting such statement	novelty, inv	ventive step or industrial applicability;
VI		Certain documents c	ited		
VII	\boxtimes	Certain defects in the	international application		
VIII	Ø	Certain observations	on the international application		
Date of sub	missic	n of the demand	Date of	completion o	of this report 1 5. 09. 99
21/01/19	99				ve.
		address of the internation	nal Authori	zed officer	ASOES MIL
oreliminary		ning authority:			Sept.
- M		pean Patent Office 298 Munich	Noll, E	3	
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US98/01617

I. Basis of the report

1. This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):

	Des	cription, pages:	
	1-20	,	as originally filed
	Clai	ms, No.:	
	1-20)	as originally filed
	Dra	wings, sheets:	
	1/2-	2/2	as originally filed
2.	The	amendments have	e resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:
3.		This report has be considered to go	een established as if (some of) the amendments had not been made, since they have been beyond the disclosure as filed (Rule 70.2(c)):
4.	Ado	litional observatior	ns, if necessary:

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/US98/01617

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes:

Claims 1-10

No:

Claims

Inventive step (IS)

Yes: Claims

No:

Claims 1-10

Industrial applicability (IA)

Yes:

Claims 1-10

No:

Claims

2. Citations and explanations

see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re section V:

The projection tv according to claim 1 contains two aspects: (1) disposing three projectors relative to a holographic reflector and a screen such that a projector having a first, shortest optical path is disposed in a substantially orthogonal orientation with the screen and two additional projectors are disposed such that their optical paths have a certain angle of incidence with respect to the screen, and (2) use of a 3D hologram as a projection screen which hologram represents a 3D array of lenticular elements and displays images with controlled light dispersion. Both aspects per se are well known in the art, see documents JP-A-6 082 625 or JP-A-9 073 132 for the projection screen and JP-A-8 292 498 or WO-A-92 09918 for the arrangement comprising projector and holographic reflector (the documents are hereinafter referred to as D1 to D4, respectively). The subject-matter of claim 1 consists merely in the juxtaposition or association of both known and common measures functioning in their normal way and not producing any non-obvious working interrelationship. The combined features do not mutually support each other in their effects to such an extent that any unexpected or surprisingly advantageous result is achieved (cf. Guidelines, C-IV, 9.8 (B1). The subject-matter of claim 1 does not therefore involve an inventive step (Article 33(3) PCT).

The additional features of dependent claims 2-10 merely relate to minor design details which do not appear to go beyond normal design considerations of a skilled person. (claims 3, 9 and 11), or are obvious from the above mentioned documents, in particular D4 (claims 2, 4, 5-8).

Re section VII:

Reference signs in parentheses should be inserted in the claims to increase their intelligibility, Rule 6.2(b) PCT.

To meet the requirements of Rule 5.1(a)(ii) PCT, the documents D1 to D4 mentioned above should be identified in the description and the relevant background art disclosed therein should be briefly discussed.

Re section VIII:

The term "panchromatic optical properties" in claim 5 is vague and not suitable to impose any clear technical limitation (Article 6 PCT). When clarifying the meaning of this term (see page 14, last paragraph) it comes out that claim 5 is substantially identical to claims 6-8 and therefore superfluous.



WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(11) International Publication Number:

WO 99/04576

A1 |

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28 January 1999 (28.01.99)

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15 July 1997 (15.07.97) 21 July 1997 (21.07.97)

US US

(71) Applicant (for all designated States except US): THOMSON CONSUMER ELECTRONICS, INC. [US/US]; 10330 North Meridian Street, Indianapolis, IN 46290-1024 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): HALL, Estill, Thone, Jr. [US/US]; 7904 Dawson Drive, Fishers, IN 46038 (US). PFILE, Wendy, Rene [US/US]; 4540 Eastbourne Drive, Indianapolis, IN 46226 (US).

(74) Agents: TRIPOLI, Joseph, S. et al.; GE & RCA Licensing Management Operation, Inc., P.O. Box 5312, Princeton, NJ 08543 (US). (81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

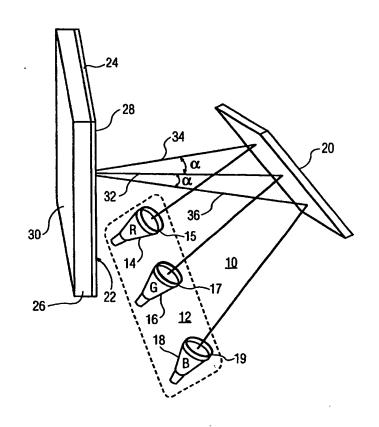
Published

With international search report.

(54) Title: HOLOGRAPHIC SCREEN PROJECTION TELEVISIONS WITH OPTICAL CORRECTION

(57) Abstract

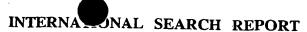
A projection television (10) is provided that comprises an optical system having at least three image projetors (14, 16, 18) for projecting respective images of different colors onto a projection screen (22), and a holographic reflector (20) disposed in optical communication with the image projectors (14, 16, 18) and the screen (22) so that one (16) of the projectors has a first optical path (32) in a substantially orthogonal orientation with the screen (22) and at least two (14, 18) of the projectors have respective optical paths (34, 36) converging toward the first optical path (32) in a non-orthogonal orientation defining angles of incidence. The projection screen (22) is formed from a three-dimensional hologram (26) representing a three-dimensional array of lenticular elements disposed on a substrate (24). The screen receives images from the projectors (14, 16, 18) on a first side and displaying the images on a second side with controlled light dispersion of all the displayed images.



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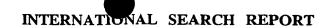
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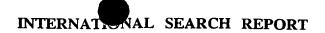
PCT/US 98/01617 A. CLASSIFICATION OF SUBJECT MATTER IPC 6 H04N9/31 G03B G03B21/62 G02B5/32 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) HO4N GO3B GO2B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category 5 Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Υ PATENT ABSTRACTS OF JAPAN 1,2,5 vol. 97, no. 7, 31 July 1997 & JP 09 073132 A (CASIO COMPUTER CO LTD), 18 March 1997. Α see abstract 11,12,15 WO 92 09918 A (THOMSON-CSF) 11 June 1992 1.5 Α see page 8, line 28 - page 9, line 26 11,15 Υ PATENT ABSTRACTS OF JAPAN 1,2 vol. 97, no. 3, 31 March 1997 & JP 08 292498 A (ASAHI GLASS CO LTD), 5 November 1996, Α see abstract 11,12 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date "A" document defining the general state of the art which is not considered to be of particular relevance or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-

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6 May 1998	12/05/1998
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Inte .onal Application No PCT/US 98/01617

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category :	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 18, no. 333 (P-1759), 23 June 1994 & JP 06 082625 A (RICOH CO LTD), 25 March 1994, see abstract	1,11
Α	WO 96 07953 A (PHILIPS ELECTRONICS N.V.) 14 March 1996 see the whole document	1,11
Α	US 5 046 793 A (HOL(LEY & AL.) 10 September 1991 see column 6, line 24 - column 8, line 31	1,11
Α	WO 95 34832 A (THOMSON-CSF) 21 December 1995 see abstract; figures 4A,4B see page 7, line 28 - page 8, line 15	1,11
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A	PATENT ABSTRACTS OF JAPAN vol. 97, no. 9, 30 September 1997 & JP 09 114354 A (DENSO CORP), 2 May 1997, see abstract	1,11
A	PATENT ABSTRACTS OF JAPAN vol. 97, no. 9, 30 September 1997 & JP 09 113995 A (DENSO CORP), 2 May 1997, see abstract	1,11
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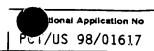


Information on patent family members

Inte onal Application No PCT/US 98/01617

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INTERNATIONAL SEARCH REPORT



A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 H04N9/31 G03B21/62

G02B5/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC } 6 & \mbox{H04N } & \mbox{G03B } & \mbox{G02B} \end{array}$

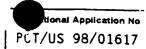
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
PATENT ABSTRACTS OF JAPAN vol. 97, no. 7, 31 July 1997 & JP 09 073132 A (CASIO COMPUTER CO LTD), 18 March 1997	1,2,5		
see abstract	11,12,15		
WO 92 09918 A (THOMSON-CSF) 11 June 1992 see page 8, line 28 - page 9, line 26	1,5 11,15		
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X Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
"Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filling date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of theinternational search	Date of mailing of the international search report
6 May 1998	12/05/1998
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer
NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Pigniez, T





ategory Citation of document, with indication where appropriate, of the relevant passages			
ategory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
	PATENT ABSTRACTS OF JAPAN vol. 18, no. 333 (P-1759), 23 June 1994 & JP 06 082625 A (RICOH CO LTD), 25 March 1994, see abstract	1,11	
i	WO 96 07953 A (PHILIPS ELECTRONICS N.V.) 14 March 1996 see the whole document	1,11	
\	US 5 046 793 A (HOCKLEY & AL.) 10 September 1991 see column 6, line 24 - column 8, line 31	1,11	
ı	WO 95 34832 A (THOMSON-CSF) 21 December 1995 see abstract; figures 4A,4B see page 7, line 28 - page 8, line 15	1,11	
\	WO 97 10523 A (RICHMOND HOLOGRAPHIC RESEARCH & DEVELOPMENT LIMITED) 20 March 1997 see page 5, line 20 - page 6, line 34	1,11	
\	EP 0 479 490 A (PHYSICAL OPTICS CORPORATION) 8 April 1992 see page 14, line 10 - line 28	1,11	
`	EP 0 349 947 A (HUGHES AIRCRAFT COMPANY) 10 January 1990 see column 3, line 48 - column 6, line 22	1,11	
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INTERNATIONAL SEARCH REPORT

tion on patent family members

PCT/US 98/01617

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	atent document d in search repo	rt	Publication date		Patent family member(s)	Publication date
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